

NKE NCF2918-V cylindrical roller bearings

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Size (mm)	42x20x12
Bore Diameter (mm)	42
Outer Diameter (mm)	20
Width (mm)	12
d	20 mm
D	42 mm
B	12 mm
d1	26.6 mm
d2	24.8 mm
D1	34.21 mm
r1,2 – min.	0.6 mm
r3,4 – min.	0.3 mm
a	13.2 mm
da – min.	22 mm
db – min.	22 mm
Da – max.	40 mm
Db – max.	39.6 mm
ra – max.	0.6 mm
rb – max.	0.3 mm
dn	28.1 mm
Basic dynamic load rating – C	7.2 kN

Basic static load rating – C ₀	3.2 kN
Fatigue load limit – P _u	0.137 kN
Limiting speed for grease lubrication	48000 r/min
Limiting speed for oil lubrication	75000 mm/min
Ball – D _w	6.35 mm
Ball – z	12
G _{ref}	1.1 cm ³
Calculation factor – e	0.68
Calculation factor – Y ₂	1.41
Calculation factor – Y ₀	0.76
Calculation factor – X ₂	0.67
Calculation factor – Y ₁	0.92
Preload class A – G _A	64 N
Preload class B – G _B	193 N
Preload class C – G _C	390 N
Calculation factor – f	1.04
Calculation factor – f ₁	0.99
Calculation factor – f _{2A}	1
Calculation factor – f _{2B}	1.03
Calculation factor – f _{2C}	1.06
Calculation factor – f _{HC}	1
Preload class A	52 N/micron
Preload class B	78 N/micron
Preload class C	102 N/micron
r _{1,2} min.	0.6 mm
r _{3,4} min.	0.3 mm
d _a min.	22 mm
d _b min.	22 mm
D _a max.	40 mm

Db max.	39.6 mm
ra max.	0.6 mm
rb max.	0.3 mm
Basic dynamic load rating C	7.15 kN
Basic static load rating C0	3.25 kN
Fatigue load limit Pu	0.137 kN
Attainable speed for grease lubrication	48000 r/min
Attainable speed for oil-air lubrication	75000 r/min
Ball diameter Dw	6.35 mm
Number of balls z	12
Reference grease quantity Gref	1.1 cm ³
Preload class A GA	64 N
Static axial stiffness, preload class A	52 N/μm
Preload class B GB	193 N
Static axial stiffness, preload class B	78 N/μm
Preload class C GC	390 N
Static axial stiffness, preload class C	102 N/μm
Calculation factor f	1.04
Calculation factor f1	0.99
Calculation factor f2A	1
Calculation factor f2B	1.03
Calculation factor f2C	1.06
Calculation factor fHC	1
Calculation factor e	0.68
Calculation factor (single, tandem) Y2	0.87
Calculation factor (single, tandem) Y0	0.38
Calculation factor (single, tandem) X2	0.41
Calculation factor (back-to-back, face-to-face) Y1	0.92

Calculation factor (back-to-back, face-to-face) Y2	1.41
Calculation factor (back-to-back, face-to-face) Y0	0.76
Calculation factor (back-to-back, face-to-face) X2	0.67
Mass bearing	0.064 kg